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jc944 U.S. PRO

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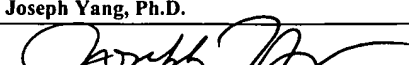
PTO/SB/05 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>	Attorney Docket No.	028420-0013CON
	First Inventor	P. C. Kocher
	Title	Cryptographic Computation Using Masking to Prevent ...
	Express Mail Label No.	EL 728 498 770 US

09/930836
08/15/01

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, D.C. 20231	
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing)</small>		7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program <i>(Appendix)</i>	
2. <input type="checkbox"/> Applicant claims small entity status. <small>See 37 CFR 1.27.</small>		8. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small>	
3. <input checked="" type="checkbox"/> Specification <small>[Total Pages 34]</small> <small>(preferred arrangement set forth below)</small> - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings <i>(if filed)</i> - Detailed Description - Claim(s) - Abstract of the Disclosure		a. <input type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statements verifying identity of above copies	
4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) <small>[Total 2]</small>		ACCOMPANYING APPLICATION PARTS	
5. Oath or Declaration <small>[Total Pages 2]</small> a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small> i. <input type="checkbox"/> DELETION OF INVENTOR(S) <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small>		9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney <small>(when there is an assignee) (copy)</small> 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 13. <input checked="" type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small> 15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small> 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. <input checked="" type="checkbox"/> Other: Certificate of Mailing	
6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <u>09/324,798</u> Prior application information: Examiner <u>J. Darrow</u> Group / Art Unit <u>2132</u>			
For CONTINUING OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.			
19. CORRESPONDENCE ADDRESS			
<input type="checkbox"/> Customer Number or Bar Code Label or <input checked="" type="checkbox"/> Correspondence address below <small>(Insert Customer No. or Attach bar code label here)</small>			
Name	Joseph Yang, Ph.D.		
	Skadden, Arps, Slate, Meagher & Flom LLP		
Address	525 University Avenue		
City	Palo Alto	State	California
		Zip Code	94301
Country	U.S.A.	Telephone	(650) 470-4500
		Fax	(650) 470-4570

Name (Print/Type)	Joseph Yang, Ph.D.	Registration No. (Attorney/Agent)	41,387
Signature		Date	August 15, 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**

Page 2

Attorney Docket No.: 028420-0013CON
First Inventor: P. C. Kocher et al.
Title: Cryptographic Computation Using Masking to
Prevent Differential Power Analysis and Other
Attacks
Express Mail Label No.: EL 728 498 770 US

This is a Continuation Application under 37 C.F.R. § 1.53(b) of pending Application Serial No. 09/324,798 filed on June 3, 1999 (which, in turn, claims the benefit of Serial No. 60/087,826 filed June 3, 1998), for DES and Other Cryptographic Processes with Leak Minimization for Smartcards and Other Cryptosystems, by the following named inventors:

- a. Full Name Paul C. Kocher
Citizenship United States of America
Residence San Francisco, California
Address 143 Fillmore Street, San Francisco, California 94117
- b. Full Name Joshua M. Jaffe
Citizenship United States of America
Residence San Francisco, California
Address 200 Upper Terrace, Apt. 4, San Francisco, California 94117
- c. Full Name Benjamin C. Jun
Citizenship United States of America
Residence Palo Alto, California
Address 1081-B Tanlan Drive, Palo Alto, California 94303

1. Enclosed is a copy of prior Application Serial No. 09/324,798 filed on June 3, 1999, including copies of the specification, claims, abstract and the executed oath or declaration as originally filed. Enclosed is a copy of the formal drawings submitted on March 28, 2001 in prior Application Serial No. 09/324,798 filed on June 3, 1999.

2. The filing fee is calculated below:

Basic Application Fee				\$	710.00
Total Claims	10	Minus 20 = 0	x \$18 =	\$	0.00
Independent Claims	3	Minus 3 = 0	x \$80 =	\$	0.00
Total Application Fee Due				\$	710.00

3. The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16 and 1.17 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 19-2385. A duplicate of this paper is enclosed.

**UTILITY
PATENT APPLICATION
TRANSMITTAL**
Page 3

Attorney Docket No.: 028420-0013CON
First Inventor: P. C. Kocher et al.
Title: Cryptographic Computation Using Masking to
Prevent Differential Power Analysis and Other
Attacks
Express Mail Label No.: EL 728 498 770 US

4. A check in the amount of \$710.00 is enclosed.
5. Cancel in this application original claims 1-40 of the prior application before calculating the filing fee.
6. The prior application is assigned of record to Cryptography Research, Inc., 870 Market Street, Suite 1088, San Francisco, California 94102 (assignment recorded June 3, 1999 at Reel 010010, Frame 0626).
7. A preliminary amendment is enclosed.
8. The power of attorney in the prior application is to:

Ronald S. Laurie, Reg. No. 25,431
Joseph Yang, Ph.D., Reg. No. 41,387

Frederick Hadidi, Reg. No. 37,342
Thomas Raleigh Lane, Reg. No. 42,781

- a. A copy of the power in the prior application is enclosed.
- b. Recognize as Associate Attorney:

Frederick D. Kim, Ph.D., Reg. No. 38,513
Stacey J. Farmer, Ph.D., Reg. No. 42,526
Robert B. Beyers, Ph.D., Reg. No. 46,552

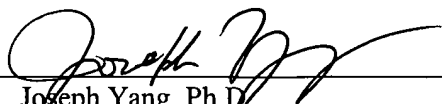
Constance F. Ramos, Ph.D., Reg. No. 47,883
Gene I. Su, Reg. No. 45,140
Daniel J. Lin, Reg. No. 47,750

- c. Address all future communications to:

Joseph Yang, Ph.D.
Skadden, Arps, Slate, Meagher & Flom LLP
525 University Avenue
Palo Alto, California 94301

Date: August 15, 2001

By:


Joseph Yang, Ph.D.
Registration No. 41,387

Address of signator:

Skadden, Arps, Slate, Meagher & Flom LLP
525 University Avenue
Palo Alto, California 94301
Telephone: (650) 470-4500
Facsimile: (650) 470-4570

Inventor(s)
Assignee of complete interest
☒ Attorney or agent of record
filed under 37 C.F.R. § 1.34(a)

FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.

Complete if Known

Application Number	Unknown
Filing Date	August 15, 2001
First Named Inventor	P. C. Kocher
Examiner Name	J. Darrow
Group / Art Unit	2132
Attorney Docket No.	028420-0013CON

TOTAL AMOUNT OF PAYMENT \$710.00

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number **19-2385**

Deposit Account Name **Skadden, Arps et al.**

- ☒ Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17

☐ Applicant claims small entity status. See 37 CFR § 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit card ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
101	201	355	Utility filing fee	710.00
106	206	160	Design filing fee	
107	207	245	Plant filing fee	
108	208	355	Reissue filing fee	
114	214	75	Provisional filing fee	
SUBTOTAL (1)				\$710.00

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
10	20** = 0	X	0.00
3	3** = 0	X	0.00
Multiple Dependent			

**or number previously paid, if greater; For Reissues, see below

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
103	203	9	Claims in excess of 20	
102	202	40	Independent claims in excess of 3	
104	204	135	Multiple dependent claim, if not paid	
109	209	40	** Reissue independent claims over original patent	
110	210	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)				\$0.00

FEE CALCULATION (continued)

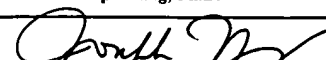
3. ADDITIONAL FEES

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee Description	Fee Paid
105	205	65	Surcharge - late filing fee or oath	
127	227	25	Surcharge - late provisional filing fee or cover sheet	
139	239	130	Non - English specification	
147	247	2,520	For filing a request for <i>ex parte</i> reexamination	
112	212	920*	Requesting publication of SIR prior to Examiner action	
113	213	1,840*	Requesting publication of SIR after Examiner action	
115	215	55	Extension for reply within first month	
116	216	195	Extension for reply within second month	
117	217	445	Extension for reply within third month	
118	218	695	Extension for reply within fourth month	
128	228	945	Extension for reply within fifth month	
119	219	155	Notice of Appeal	
120	220	155	Filing a brief in support of an appeal	
121	221	135	Request for oral hearing	
138	238	1,510	Petition to institute a public use proceeding	
140	240	55	Petition to revive - unavoidable	
141	241	620	Petition to revive - unintentional	
142	242	620	Utility issue fee (or reissue)	
143	243	220	Design issue fee	
144	244	300	Plant issue fee	
122	222	130	Petitions to the Commissioner	
123	223	50	Petitions related to provisional applications	
126	226	240	Submission of Information Disclosure Statement	
581	281	40	Recording each patent assignment per property (times number of properties)	
146	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	279	355	Request for Continued Examination (RCE)	
169	269	900	Request for expedited examination of a design application	
Other fee (specify)				

Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

SUBMITTED BY

Name (Print/Type)	Joseph Yang, Ph.D.	Registration No. (Attorney/Agent)	41,387	Telephone	(650) 470-4500
Signature		Date	August 15, 2001		

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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): P. C. Kocher et al.

Docket No.

028420-0013CON

Serial No.

Unknown

Filing Date

August 15, 2001

Examiner

J. Darrow

Group Art Unit

2132

Invention:

Cryptographic Computation Using Masking to Prevent Differential Power Analysis and Other Attacks

I hereby certify that this Utility Patent Application Transmittal and all enclosures

(Identify type of correspondence)

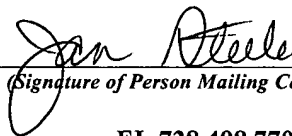
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37 CFR 1.10 in an envelope addressed to: ~~The Assistant~~ Commissioner for Patents, Washington, D.C. 20231 onAugust 15, 2001

(Date)

Jan Steele

(Typed or Printed Name of Person Mailing Correspondence)



(Signature of Person Mailing Correspondence)

EL 728 498 770 US

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